

IN THE CLAIMS:

Please cancel Claims 1-26 and replace them with Claims 27-49.

L.1.26 -- *27* A nucleic acid molecule encoding a protein with the function of a wheat isoamylase, selected from the group consisting of
(a) a nucleic acid molecule encoding a protein comprising the amino acid sequence shown under Seq ID No. 3,
(b) a nucleic acid molecule comprising the nucleotide sequence shown under Seq ID No. 2 or a part thereof or a ribonucleotide sequence corresponding thereto;
(c) a nucleic acid molecule which hybridizes with a nucleic acid molecule mentioned under (a) or (b) or is complementary thereto, and
(d) a nucleic acid molecule whose nucleotide sequence deviates from the sequence of a nucleic acid molecule mentioned under (a), (b) or (c) owing to the degeneracy of the genetic code,
the nucleic acid molecule mentioned under (a), (c) and (d) having a homology of over 90% with Seq ID No. 2.

A1 *25* A nucleic acid molecule as claimed in claim *27* which is a DNA molecule.

26 *28* A DNA molecule as claimed in claim *28* which is a cDNA molecule.

27 *30* A nucleic acid molecule as claimed in claim *27* containing regulatory elements.

28 *31* A nucleic acid molecule as claimed in claim *27* which is an RNA molecule.

29 *32* A nucleic acid molecule which specifically hybridizes with a nucleic acid molecule as claimed in claim *27* and has a homology of over 90% with Seq ID No. 2.

30 *33* A nucleic acid molecule as claimed in claim *27* which, is an oligonucleotide with a length of at least 15 nucleotides.

claim 24

A vector containing a DNA molecule as claimed in

A vector as claimed in claim 34 wherein said nucleic acid molecule is linked in sense orientation to regulatory elements which ensure transcription and synthesis of a translatable RNA in pro- or eukaryotic cells.

A vector as claimed in claim 34 wherein said nucleic acid molecule is linked in sense orientation to regulatory elements which ensure the synthesis of an untranslatable RNA in pro- or eukaryotic cells.

A vector as claimed in claim 34 wherein said nucleic acid molecule is linked in antisense orientation to regulatory elements which ensure the synthesis of an untranslatable RNA in pro- or eukaryotic cells.

A host cell which is transformed with a nucleic acid molecule as claimed in one or more of claims 27 to 31 or a vector as claimed in one or more of claims 34 to 37 or which is derived from such a cell.

A process for the preparation of a protein as claimed in claim 36 wherein a host cell as claimed in claim 38 is cultured under conditions which permit said protein to be synthesized and said protein is isolated from the cultured cells and/or the culture medium.

A process for generating a transgenic plant cell, wherein
a) a nucleic acid molecule as claimed in one or more of claims 27 to 31 or
b) a vector as claimed in one or more of claims 34 to 37 is integrated into the genome of a plant cell.

A transgenic plant cell which has been transformed with a nucleic acid molecule as claimed in one or more of claims 27 to 30 or one or more vector as claimed in claims 34 to 37 or which is derived from such a cell.

A process for generating a transgenic plant cell, wherein

